

Title (en)

ELECTRONICALLY CONTROLLED LOCKING DIFFERENTIAL HAVING LOGIC-CONTROL WIRE HARNESS

Title (de)

ELEKTRONISCH GESTEUERTES SPERRDIFFERENZIAL MIT EINEM LOGIC-CONTROL KABELBAUM

Title (fr)

DIFFERENTIEL DE BLOCAGE A PILOTAGE ELECTRONIQUE COMPRENANT UN FAISCEAU DE CABLAGE DE LOGIQUE DE COMMANDE

Publication

EP 2432657 B1 20140813 (EN)

Application

EP 10724579 A 20100520

Priority

- IB 2010001188 W 20100520
- US 46889409 A 20090520

Abstract (en)

[origin: US2010298082A1] An electronically controlled locking differential includes an electromagnetic coil and a wire harness adapted to logically control operation of the differential and having a circuit. The circuit has a latching switch that is electrically connected to a first source of power and adapted to provide latching power of the differential. A double-pole, double-throw control relay is electrically connected to the latching switch and includes a first switch, a second switch, and a coil. The second switch is adapted to "jump" the latching switch. The circuit is disabled when power to the harness is turned off and in "standby" mode when power to the harness is turned on. Upon the latching switch being activated, current flows from a starting point of the circuit through the circuit to activate the relay, the first switch closes to energize the differential, the second switch closes such that the current "jumps" the latching switch, and the differential is actuated.

IPC 8 full level

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CPC (source: EP KR US)

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